

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BPFNDP017BWO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/BE2004/000134	International filing date (day/month/year) 22/09/2004	(Earliest) Priority Date (day/month/year) 22/09/2003
Applicant FACULTES UNIVERSITAIRES NOTRE-DAME DE LA PAIX		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☒ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/BE2004/000134

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D213/80 C07D213/69 A61K31/4412 A61P31/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ~	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/55676 A (AUBERTIN ANNE MARIE ; BISAGNI EMILE (FR); DOLLE VALERIE (FR); GRIERSON) 4 November 1999 (1999-11-04) cited in the application	1,8-13
A	page 1, line 26 - page 3, line 21; claim 1; example 1	2-7,17
X	WO 02/24650 A (JANSSEN PHARMACEUTICA NV ; BENJAHAD ABDELLAH (FR); GUILLEMONT JEROME) 28 March 2002 (2002-03-28) cited in the application	1,8-13
A	page 2, line 4 - page 9, line 20; claim 1; example 69	2-7,17
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

6 July 2005

Date of mailing of the international search report

18. 07. 05

Name and mailing address of the ISA

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Usuelli, A

INTERNATIONAL SEARCH REPORT

International Application No
PCT/BE2004/000134

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DOLLE V ET AL: "A NEW SERIES OF PYRIDINONE DERIVATIVES AS POTENT NON-NUCLEOSIDE HUMAN IMMUNODEFICIENCY VIRUS TYPE U SPECIFIC REVERSE TRANSCRIPTASE INHIBITORS" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 38, no. 23, 15 October 1995 (1995-10-15), pages 4679-4686, XP002002675 ISSN: 0022-2623 Scheme 4 tables 1-3	1-13,17
X	----- Scheme 4 tables 1-3	14-16
X	WO 98/37072 A (THE GOVERNMENT OF THE UNITED STATES OF AMERICA, REPRESENTED BY THE SEC) 27 August 1998 (1998-08-27) page 8, line 1 - page 8, line 9; claim 1 -----	16
X	DOLLE V ET AL: "Synthesis of new non-nucleoside inhibitors of HIV-1" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 6, no. 2, 23 January 1996 (1996-01-23), pages 173-178, XP004135103 ISSN: 0960-894X Scheme 2 -----	14-16

INTERNATIONAL SEARCH REPORT

International application No.
PCT/BE2004/000134

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-13,17

Compounds of formula (I)

2. claims: 14-16

Method for obtaining an irreversible anti-HIV compound

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/BE2004/000134

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9955676	A	04-11-1999	AU 4137899 A	16-11-1999
			BG 104984 A	31-07-2001
			BR 9909976 A	26-12-2000
			CA 2330304 A1	04-11-1999
			CN 1303378 A	11-07-2001
			CZ 20003978 A3	12-09-2001
			EE 200000620 A	15-04-2002
			WO 9955676 A1	04-11-1999
			EP 1073637 A1	07-02-2001
			HR 20000716 A1	30-06-2001
			HU 0101595 A2	28-11-2001
			ID 27502 A	12-04-2001
			JP 2002513004 T	08-05-2002
			MX PA00010490 A	17-10-2002
			NO 20005387 A	04-12-2000
			NZ 508297 A	20-12-2002
			PL 343685 A1	27-08-2001
			SK 16072000 A3	04-04-2002
			TR 200003113 T2	21-05-2001
			US 2003125340 A1	03-07-2003
			US 6451822 B1	17-09-2002
			ZA 200006037 A	25-01-2002
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			EP 1318995 A2	18-06-2003
			WO 0224650 A2	28-03-2002
			JP 2004509867 T	02-04-2004
			US 2004229847 A1	18-11-2004
WO 9837072	A	27-08-1998	AT 238998 T	15-05-2003
			AU 741772 B2	06-12-2001
			AU 6337198 A	09-09-1998
			CA 2281927 A1	27-08-1998
			DE 69814049 D1	05-06-2003
			DE 69814049 T2	19-02-2004
			EP 0963371 A1	15-12-1999
			JP 2001513084 T	28-08-2001
			WO 9837072 A1	27-08-1998
			US 2003191160 A1	09-10-2003
			US 6369235 B1	09-04-2002